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| UTILITY | | | | | |
|--------------------|--|--|--|--|--|
| PATENT APPLICATION | | | | | |
| TRANSMITTAL | | | | | |

| Attorney Docket No. | 06391 USA |
|------------------------|---|
| First Inventor | Rajiv K. Agarwal |
| Title | Removal of Sulfur-Containing Impuriti s |
| Express Mail Label No. | EV 206611638 |

(Only for new nonprovisional applications under 37 CFR 1.53(b))

| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents. | ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 | | | | | |
|--|---|--|--|--|--|--|
| 1. Ee Transmittal Form (e.g., PTO/SB/17) | 7. CD-ROM or CD-R in duplicate, large table or Computer 🛱 | | | | | |
| (Submit an original and a duplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 1.27. | 8. Nucleotide and/or Amino Acid Sequence Submission | | | | | |
| 3. Specification Total Pages 11 | (if applicable, all necessary) a. Computer Readable Form (CRF) | | | | | |
| (preferred arrangement set forth below) | b. Specification Sequence Listing on: | | | | | |
| Descriptive title of the invention Cross Reference to Related Applications | i. CD-ROM or CD-R (2 copies); or ii. Paper | | | | | |
| Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, or a computer program listing appendix. | c. Statements verifying identity of above copies | | | | | |
| - Background of the Invention | 4000119 4111/1119 41119 41119 41119 | | | | | |
| Brief Summary of the Invention Brief Description of the Drawings (if filed) | 9. Assignment Papers (cover sheet & document(s)) | | | | | |
| Detailed Description Claim(s) | | | | | | |
| - Abstract of the Disclosure | (when there is an assignee) | | | | | |
| 4. Drawing(s) (35 U.S.C. 113) Total Sheets 1 | 11. English Translation Document (if applicable) | | | | | |
| 5. Oath or Declaration Total Sheets 4 | 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations | | | | | |
| a. Newly executed (original or copy) | 13. Preliminary Amendment | | | | | |
| b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) | 14. Return Receipt Postcard (MPEP 503) | | | | | |
| i. DELETION OF INVENTOR(S) | (Should be specifically itemized) 15. Certified Copy of Priority Document(s) | | | | | |
| Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR | (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). | | | | | |
| 1.63(d)(2) and 1.33(b). | • • • • • • • • • • • • • • • • • • • | | | | | |
| 6. Application Data Sheet. See 37 CFR 1.76 | 17. Other: | | | | | |
| If a CONTINUING APPLICATION, check appropriate box, and specification following the title, or in an Application Data Shee | I supply the requisite information below and in the first sentence of the tunder 37 CFR 1.76: | | | | | |
| Continuation Divisional Continuat | ion-in-part (CIP) of prior application No. | | | | | |
| Prior application information: Examiner: | Art Unit: | | | | | |
| | the prior application, from which an oath or declaration is supplied under Box ion or divisional application and is hereby incorporated by reference. The | | | | | |
| incorporation can only be relied upon when a portion has been inadverte | ntly omitted from the submitted application parts. | | | | | |
| 19. CORRESPO | DNDENCE ADDRESS | | | | | |
| Customer Number: 23543 OR Correspondence address below | | | | | | |
| Name | | | | | | |
| Address | | | | | | |
| City State | Zip Code | | | | | |
| County Telephone | Fax | | | | | |
| Name (Print/Type) John M. Fernbacher | Registration No. (Attorney/Agent 32,895 | | | | | |
| Signature All Hulled | Date 11/19/2003 | | | | | |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commence, P.O Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Pat nt Application, Commission or f r Pat nts, P.O. B x 1450, Al xandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to re

| FEE TRANSMITTAL |
|------------------------|
| for FY 2004 |

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

| OTAL AMOUNT OF PAYMENT | (\$) | 770.00 |
|------------------------|------|--------|
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| spond to a collection of mic | ormation unless it displays a valid Olvib control number. | | | | |
|------------------------------|---|--|--|--|--|
| Complete if Known | | | | | |
| Application Number | | | | | |
| Filing Date | | | | | |
| First Named Inventor | Rajiv K. Agarwal | | | | |
| Examiner Name | | | | | |
| Art Unit | | | | | |
| Attorney Docket No. | 06391 USA | | | | |

| METHOD OF PAYMENT (check all that apply) | FEE CALCULATION (continued) | | | | | |
|---|-----------------------------------|-------------|--------------|-------------|---|----------------|
| Check Credit card Money Other None | 3. ADDITIONAL FEES | | | | | |
| Deposit Account: | Large Entity Small Entity | | | | | |
| Deposit O4 0400 | Fee Code | Fee (\$) | | Fee (\$) | Fee Description | Fee Paid |
| Account Number U1-0493 | 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | |
| Account Air Products & Chemicals, Inc. | 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | |
| Name The Director is authorized to: (check all that apply) | 1053 | 130 | 1053 | 130 | Non-English specification | |
| XX Charge fee(s) indicated below X Credit any overpayments | 1812 | 2,520 | 1812 | 2,520 | For filing a request for ex parte reexamination | |
| Charge any additional fee(s) or any underpayment of fee(s) | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| Charge fee(s) indicated below, except for the filing fee | 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after | |
| to the above-identified deposit account. | 1251 | 440 | 2251 | 55 | Examiner action | |
| FEE CALCULATION | 1 | 110 | | | Extension for reply within first month Extension for reply within second month | |
| 1. BASIC FILING FEE | 1252 | 420 | 2252 2253 | 210 | •• | |
| Large Entity Small Entity Fee Fee Fee Fee Fee Description Fee Paid | 1253 | 950 | | | Extension for reply within third month | |
| Code (\$) Code (\$) | 1254 | ., | 2254 | 740 | Extension for reply within fourth month | - |
| 1001 770 2001 385 Utility filing fee 770.00 | | 2,010 | 2255 | 1,005 | Extension for reply within fifth month | |
| 1002 340 2002 170 Design filing fee | 1401 | 330 | 2401 | 165 | Notice of Appeal | |
| 1003 530 2003 265 Plant filing fee | 1402 | 330 | 2402 | 165 | Filing a brief in support of an appeal | —— |
| 1004 770 2004 385 Reissue filing fee | 1403 | 290 | 2403 | 145 | Request for oral hearing | - |
| 1005 160 2005 80 Provisional filing fee | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| SUBTOTAL (1) (\$) 770.00 | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | <u></u> |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional | |
| Fee from | 1501 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) | |
| Extra Claims below Fee Paid Total Claims 17 -20** = 0 X | 1502 | 480 | 2502 | 240 | Design issue fee | |
| Independent Co. | 1503 | 640 | 2503 | 320 | Plant issue fee | |
| Claims Multiple Dependent | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | |
| Large Entity Small Entity Fee Fee Fee Fee Fee Description | 1806 | 180 | 1806 | | Submission of Information Disclosure Stmt | |
| Code (\$) Code (\$) | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | |
| 1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3 | 1809 | 770 | 2809 | 385 | Filing a submission after final rejection | |
| 1201 66 2201 43 independent daims in excess of 3 | 4040 | 770 | 2042 | | (37 CFR 1.129(a)) | |
| | 1810 | 770 | 2810 | 385 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1204 86 2204 43 ** Reissue independent claims over original patent | 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | |
| CURTOTAL (A) | Other fee (specify) | | | | | |
| SUBTOTAL (2) (\$) **or number previously paid, if greater; For Reissues, see above | *Reduced by Basic Filing Fee Paid | | | | | |
| or number previously paid, it greater, i or relisades, see above | | | | | | |

| SUBMITTED BY (Complete (if applicable)) | | | | | | |
|---|--------------------|--|-----------|--------------|--|--|
| Name (Print/Type) | John M. Hernbacher | Registration No. (Attorney/Agent) 32,895 | Telephone | 610-481-6560 | | |
| Signature | Miller lade | | Date | 11/19/03 | | |

WARNING: Inf rmati n n thi form may b c me public. Credit card information sh uld not be included on this f rm. Provide credit card information and authorization on PTO-2038.

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